

WHAT IS CLAIMED IS:

1. An antivibration glove comprising:
a glove body having a glove front and a glove back, said glove front and glove back defining an opening for accepting a human hand and a recess for receiving said hand, said glove front including a palm portion and a finger portion;
a vibration dampener essentially disposed in the glove recess adjacent the glove front, said vibration dampener having at least first and second generally coterminous layers, said first coterminous layer being composed of a viscoelastic material having a Shore 00 durometer of less than 50 and a rebound percentage of less than 20, said second coterminous layer being composed of a foam material.
2. The antivibration glove as set forth in claim 1 wherein the vibration dampener further includes a third layer, said third layer being coterminous with said first and second layers.
3. The antivibration glove as set forth in claim 2 wherein the first coterminous layer is sandwiched between the second and third coterminous layers.
4. The antivibration glove as set forth in claim 1 wherein the viscoelastic material is selected from the group consisting essentially of PVC, urethane and silicone rubber.
5. The antivibration glove as set forth in claim 1 wherein the viscoelastic material has a Shore 00 durometer no greater than about 40.
6. The antivibration glove as set forth in claim 1 wherein the rebound percentage of the viscoelastic material is no greater than about 15.
7. The antivibration glove as set forth in claim 1 wherein the viscoelastic material has a plurality of gas-filled voids therein of a predetermined size and density.
8. The antivibration glove as set forth in claim 1 wherein said foam material has an indentation force deflection in the range of from 25 to 35 psi.
9. The antivibration glove as set forth in claim 1 wherein the foam material has between 40 and 120 pores per inch.

10. The antivibration glove as set forth in claim 1 wherein the second coterminous layer has a thickness of approximately 1/8".

11. The antivibration glove as set forth in claim 10 further including a third coterminous layer, said layer having a thickness approximately the same as the thickness of the second layer.

12. The antivibration glove as set forth in claim 1 wherein the layer of viscoelastic material is preformed in a non-uniform shape.

13. The antivibration glove as set forth in claim 12 wherein the layer of viscoelastic material has creases therein to facilitate manipulation of the glove.

14. The antivibration glove as set forth in claim 12 wherein the layer of viscoelastic material is relatively thicker adjacent the palm portion and relatively thinner adjacent the finger portion.

15. The antivibration glove as set forth in claim 12 wherein the layer of viscoelastic material is tapered from the opening of the glove toward the opposite end of the glove.

16. The antivibration glove as set forth in claim 12 wherein the layer of viscoelastic material has a curved shape corresponding at least in part to the rest position of a human hand.

17. The antivibration glove as set forth in claim 1 wherein the layer of viscoelastic material adjacent the finger portion extends somewhat toward the glove back, so as to partially encircle the fingers of a human hand.

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A2 > 18. An antivibration glove comprising:
a glove body having a glove front and a glove back, said glove front and glove back defining an opening for accepting a human hand and a recess for receiving said hand, said glove front including a palm portion and a finger portion;

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a vibration dampener essentially disposed in the glove recess adjacent the glove front, said vibration dampener including a layer of viscoelastic material having gas-filled voids disposed therein of a predetermined size and density.

19. The antivibration glove as set forth in claim 18 wherein said gas-filled voids are dispersed throughout the viscoelastic material.

20. An antivibration glove comprising:

a glove body having a glove front and a glove back, said glove front and glove back defining an opening for accepting a human hand and a recess for receiving said hand, said glove front including a palm portion and a finger portion;

a vibration dampener essentially disposed in the glove recess adjacent the glove front, said vibration dampener including a viscoelastic molded member of a predetermined non-uniform shape.

21. The antivibration glove as set forth in claim 20 wherein the layer of viscoelastic material has creases therein to facilitate manipulation of the glove.

22. The antivibration glove as set forth in claim 20 wherein the layer of viscoelastic material is relatively thicker adjacent the palm portion and relatively thinner adjacent the finger portion.


23. The antivibration glove as set forth in claim 20 wherein the layer of viscoelastic material is tapered from the opening of the glove toward the opposite end of the glove.

24. The antivibration glove as set forth in claim 20 wherein the layer of viscoelastic material has a curved shape corresponding at least in part to the rest position of a human hand.

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25. An antivibration glove comprising:

a glove body having a glove front and a glove back, said glove front and glove back defining an opening for accepting a human hand and a recess for receiving said hand, said glove front including a palm portion and a finger portion;

Sub 13  a vibration dampener essentially disposed in the glove recess adjacent the glove front, said vibration dampener including a layer of viscoelastic material extending generally from the glove opening to the opposite end of the glove, said layer of viscoelastic material being relatively thicker near the glove palm area and ball of the thumb and relatively thinner adjacent the finger portion of the glove front.

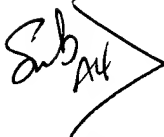
26. The antivibration glove as set forth in claim 25 wherein the layer of viscoelastic material is tapered from the glove opening toward the finger portion.

27. An antivibration glove comprising:

a glove body having a glove front and a glove back, said glove front and glove back defining an opening for accepting a human hand and a recess for receiving said hand, said glove front including a palm portion and a finger portion;

a vibration dampener essentially disposed in the glove recess adjacent the glove front, said vibration dampener including a layer of viscoelastic material disposed adjacent at least the palm portion of the glove front, said layer of viscoelastic material being creased so as to facilitate manipulation of the glove.

28. The antivibration glove as set forth in claim 27 wherein at least a portion of the viscoelastic material disposed adjacent the finger portion is creased.

Sub 14  29. An antivibration glove comprising:

a glove body having a glove front and a glove back, said glove front and glove back defining an opening for accepting a human hand and a recess for receiving said hand, said glove front including a palm portion and a finger portion;

a vibration dampener essentially disposed in the glove recess adjacent the glove front, said vibration dampener having a layer of viscoelastic material disposed at least adjacent to the palm portion of the glove front, said layer of viscoelastic material being preformed in a curved shape corresponding at least partially to a rest position of a human hand.

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30. An antivibration glove comprising:

a glove body having a glove front and a glove back, said glove front and glove back defining an opening for accepting a human hand and a recess for receiving said hand, said glove front including a palm portion and a finger portion;

a vibration dampener essentially disposed in the glove recess adjacent the glove front, said vibration dampener extending from the palm portion to the finger portion of the glove front and dampening applied vibration in the range of from 200 Hz to 1250 Hz by at least 40%.

31. The antivibration glove as set forth in claim 30 wherein below 200 Hz the vibration dampener has no resonant response greater than 1.0.

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